WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | | Date: | 10/01/14 | |
|--|--|--|---------------------------|--|--|--|--|--|---|--|---|---|--|
| Applicant: | | Enbridge | | | | | | | | | County: | Pennington | |
| Investigators | | MRK/OTG | | | | Subregion | ∩ (MLRA | or LRR): | MLRA 56 | | State: | MN | |
| Soil Unit: | I16F | | | | | | | Classification: | | | | | |
| Landform: | Depression | | | | | cal Relief: | | | | | Sample Point: | w-152n43w14-a2 | |
| Slope (%): | 0 - 2% | | Latitude: 47 | | | Longitude: | | | Datum: | | | | |
| | | onditions on the site | | | | ar? (If no, exp | 1 | | Yes | □ No | Section: | | |
| Are Vegetation | | | | - | | | Are | e normal circum | - | esent? | Township: | | |
| Are Vegetation | | | □aturally | prob | lematic? | | | Yes | □ No | | Range: | Dir: | |
| SUMMARY C | | | | | | | | | | | | | |
| Hydrophytic \ | • | | Yes | | | • | | | | ls Present? | | | |
| Wetland Hyd | | | Yes | | <u> </u> | | | | Is This Sar | mpling Poin | t Within A W | etland? Yes | |
| Remarks: | Wetland sa | imple point is locate | ed in a shal | allow | marsh. | | | | | | | | |
| | | | | | | | | | | | | | |
| HYDROLOG' | Y | | | | | | | | | | | | |
| Wetland Hy | drology Ind | licators (Check all | that apply; | ; Mini | imum of on | e primary | or two se | econdary requir | ed): | | | | |
| Primary: | | • | | | | | | | , | Secondary: | | | |
| □ A1 - Surface Water | | | | | | B11 - Salt (| | | | | | oil Cracks | |
| □ A2 - High Water Table | | | | | | B13 - Aqua | | | | | | Vegetated Concave Surface | |
| | A3 - Saturation B1 - Water M | | | □ C1 - Hydrogen Sulfide Odor□ C2 - Dry Season Water Table□ □ | | | | | | | B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) | | |
| | B2 - Sedimer | | | | | | | spheres on Living | Roots (not till | € □ | C8 - Crayfish E | | |
| | B3 - Drift Dep | • | | | _ | C4 - Prese | | | (************************************** | | | Nisible on Aerial Imagery | |
| ✓ | B4 - Algal Ma | | | ☐ C7 - Thin Muck Surface ☐ | | | | | | | D2 - Geomorp | | |
| | B5 - Iron Dep | | | | | Other (Exp | lain) | | | ☑ | D5 - FAC-Neut | | |
| | | on Visible on Aerial Ima Itained Leaves | agery | | | | | | | | D7 - Frost-Hea | aved Hummocks (LRR F) | |
| | b9 - water-S | tained Leaves | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | | |
| | | Vaa 👨 | D- | 41 | | (in) | | | | | | | |
| Surface Water | | Yes | | _ | | (in.) | | | Wetland H | lydrology l | Present? | Υ | |
| Water Table Saturation Pr | | Yes □ Yes □ | | epth: _ | | (in.) | | | | | | | |
| | | | | epth: _ | | (in.) | | | | | | | |
| Describe Reco | orded Data(| ctroom aquad monit | المبيد بمصنعمة | | | | | | | | | | |
| | | | | | | | | if available: | | | | | |
| Remarks: | | located in a depres | | | | | | if available: | | | | | |
| Remarks: | | | | | | | | if available: | | | | | |
| Remarks: | Wetland is | located in a depres | ssion and s | suppo | orts hydroph | nytic veget | ation. | | diantora | | | | |
| Remarks: SOILS Profile Descri | Wetland is ption (Descr | located in a depres | eded to do | suppo | orts hydrophent the indicate | nytic veget | ation. | e absence of in | | | | | |
| Remarks: SOILS Profile Descri | Wetland is ption (Descr | located in a depres | eded to do | suppo | orts hydrophent the indicate | nytic veget | ation. | e absence of in | | | | | |
| Remarks: SOILS Profile Descri | Wetland is ption (Descr | located in a depressibe to the depth new letion, RM=Reduced Ma | eded to do | suppo | orts hydrophent the indicate | nytic veget | nfirm the | e absence of in ore Lining, M=Matri | | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | Wetland is ption (Descr | located in a depressibe to the depth new letion, RM=Reduced Ma | eded to do | ocumo vered/0 | orts hydroph ent the indic Coated Sand C | nytic veget cator or co Grains; Locat | enfirm the dion: PL=Po | e absence of in ore Lining, M=Matri | x) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri | Wetland is ption (Descr | located in a depressibe to the depth new letion, RM=Reduced Ma | eded to do | suppo | orts hydrophent the indicate | nytic veget cator or co Grains; Locat | nfirm the | e absence of in ore Lining, M=Matri | | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | Wetland is ption (Descr | located in a depressibe to the depth new letion, RM=Reduced Ma | eded to do | ocumo vered/0 | orts hydroph ent the indic Coated Sand C | nytic veget cator or co Grains; Locat | enfirm the dion: PL=Po | e absence of in ore Lining, M=Matri | x) | Texture | | Remarks | |
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| Remarks: SOILS Profile Descri (Type: C=Concer | Wetland is ption (Descr | located in a depressibe to the depth new letion, RM=Reduced Ma | eded to do | ocumo vered/0 | orts hydroph ent the indic Coated Sand C | nytic veget cator or co Grains; Locat | enfirm the dion: PL=Po | e absence of in ore Lining, M=Matri | x) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | Wetland is | ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) | eded to docatrix, CS=Cove | ocumovered/0 | ent the indicoated Sand C | cator or co Grains; Locat | mottle | e absence of in ore Lining, M=Matri es Type | x) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | Wetland is | ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) | eded to docatrix, CS=Cove | ocumovered/0 | orts hydroph ent the indic Coated Sand C | cator or co Grains; Locat | mottle | e absence of in ore Lining, M=Matri | x) | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | Wetland is ption (Description, D=Dep | ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) | eded to docatrix, CS=Cove | ocumovered/0 | ent the indicoated Sand Coated Sand Color (I | cator or co Grains; Locat Moist) | mottle | e absence of in ore Lining, M=Matri es Type | Location | Indicators f | or Problematic | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | Wetland is ption (Description, D=Dep | Ibe to the depth negletion, RM=Reduced Markix Color (Moist) I Indicators (characters) | eded to docatrix, CS=Cove | ocumovered/0 | ent the indicoated Sand Coated Sand Color (I | cator or co Grains; Locat Moist) | mottle | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M | luck (LRR I, J) | : Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | wetland is ption (Description, D=Deportration, D=Deportration) ic Soil Field A1- Histosol A2 - Histic Ep | ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) I Indicators (chappipedon | eded to docatrix, CS=Cove | ocumovered/o | ent the indicoated Sand Coated Sand Color (I | cator or co Grains; Locat Moist) not present | mottle % | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M A16 - Coast | luck (LRR I, J) Prairie Redox (| : Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi | Ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) I Indicators (chapipedon stic | eded to docatrix, CS=Cove | ocumovered/0 | ent the indicoated Sand Coated Sand Sandy Robbits Sandy Ro | cator or co Grains; Locat Moist) oot present | monfirm the months with the mo | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S | luck (LRR I, J) Prairie Redox (urface (LRR G) | Soils ¹ LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | Metland is ption (Description, D=Depintration, D=Depintration | ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) I Indicators (checken Sulfide | eded to docatrix, CS=Cove | ocumovered/o | ent the indicated Sand Coated Sand Resource Sandy Resource Sand | cator or co Grains; Locat Moist) Moist) edox Matrix Jucky Minera | monfirm the months with the mo | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | : Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | Metland is Iption (Description, D=Depintration, D=Depintratio | Ibe to the depth negletion, RM=Reduced Markix Color (Moist) I Indicators (characters and Sulfide de Layers (LRR F) and LRR FGH) | eded to docatrix, CS=Cove | cumovered/0 % findic | ent the indicoated Sand Coated Sand Sandy Robbits Sandy Ro | cator or co Grains; Locat Moist) Moist) edox Matrix lucky Mineralleyed Matrix Matrix | montine the months with the mo | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | Soils ¹ LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr | Metland is ption (Description, D=Depintration, D=Depintration | Ibe to the depth negletion, RM=Reduced Ma Matrix Color (Moist) I Indicators (check of Sulfide de Layers (LRR F) Juck (LRR FGH) Juck (BR FGH) | eded to docatrix, CS=Cove | f indic | ent the indicated Sand Coated | cator or co Grains; Locat Moist) Moist) edox Matrix lucky Minera leyed Matrix Matrix Matrix ark Surface | monfirm the months of the mont | e absence of in ore Lining, M=Matri es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S | E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) | ption (Description, D=Deportration, D=Deportration, D=Deportration) A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D | Ibe to the depth negletion, RM=Reduced Markix Matrix Color (Moist) I Indicators (check of Sulfide depth of Layers (LRR F) ack (LRR FGH) and Below Dark Surface of Dark Surface of Dark Surface | eded to docatrix, CS=Cove | cumovered/0 % findic | ent the indicated Sand Coated | cator or co Grains; Locat Moist) Moist) edox Matrix lucky Minera leyed Matrix leyed Matrix ark Surface Dark Surfa epressions | montine the dion: PL=Po | e absence of incore Lining, M=Matri | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material | E Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) | |
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WETLAND DETERMINATION DATA FORM

Great Plains Region

| Project/Site | : L3R | | | | Sample Point: w-152n43w14-a2 |
|---------------|--|---------------|---------------------------------------|--------------|---|
| | | | | | |
| VEGETATIO | | re non-native | species.) | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | |
| | <u>Species Name</u> | % Cover | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet |
| 1. | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC:(A) |
| 3. | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 2 (B) |
| 5. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 7. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | 4 |
| 10. | | | | | Total % Cover of: Multiply by: |
| 10. | _l Total Cover = | | | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| | Total Cover = | . 0 | FACTOR Spp. 20 $\times 2 = 40$ | | |
| 0 11 /01 1 | 0 | | | | FAC spp. $\frac{0}{\sqrt{3}}$ $\times 3 = \frac{0}{\sqrt{3}}$ |
| | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 0 X 4 = 0 |
| 1. | | | | | OBL spp. 95 |
| 2. | | | | | |
| 3. | | | | | Total 115 (A) 135 (B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = B/A = 1.174 |
| 6. | | | | | |
| 7. | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation |
| 10. | | | | | X Dominance Test is > 50% |
| 10. | Total Cover = | . 0 | | | X Prevalence Index is ≤ 3.0 * |
| | Total Gover = | | _ | | |
| | <u></u> | | | | Morphological Adaptations (Explain) * |
| | (Plot size: 5 ft. radius) | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 001 | X Problem Hydrophytic Vegetation (Explain) * |
| 1. | Typha angustifolia | 40 | Υ | OBL | |
| 2. | Schoenoplectus fluviatilis | 30 | Υ | OBL | * Indicators of hydric soil and wetland hydrology must be |
| 3. | Phalaris arundinacea | 20 | N | FACW | present, unless disturbed or problematic. |
| 4. | Sparganium eurycarpum | 15 | N | OBL | Definitions of Vegetation Strata: |
| 5. | Alisma triviale | 10 | N | OBL | |
| 6 | | | | | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast |
| 7. | | | | | height (DBH), regardless of height. |
| 8. | | | | | |
| 9. | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| 10. | | | | | |
| 11. | | | | | 1 |
| | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 12. | | | | | Terp - All herbaceous (hon-woody) plants, regardless of size. |
| 13. | | | | | 4 |
| 14. | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| | Total Cover = | 115 | | | |
| | | | | | |
| Woody Vine St | tratum (Plot size: 30 ft. radius) | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? |
| 5. | | | | | |
| 4. | | | | | |
| 4. | Total Cover = | | | | |
| Downsiles | | | معط علام ال | n budan - I- | |
| Remarks: | Wetland sample point is dominated by narro | wleat catta | il and rive | r bulrush. | |
| | | | | | |
| | | | | | |
| Additional F | Remarks: | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |